



# TOWN OF BRIDGEWATER

## OFFICE OF HIGHWAY SUPERINTENDENT

35m  
**SUPERINTENDENT  
ANDREW P. BAGAS  
(508) 697-0931**

**151 HIGH STREET  
BRIDGEWATER, MA 02324**

**DATE:** September 13, 2006

**TO:** U.S. E.P.A.  
Water Treatment Unit  
P.O. Box 8127  
Boston, MA 02114

Mass D.E.P.  
Division of Watershed Mgt.  
627 Main St. 2<sup>nd</sup> Floor  
Worcester, MA 01608

**FROM:** Andrew Bagas  
Bridgewater Highway Superintendent

A handwritten signature in black ink, appearing to read "Andrew Bagas", is written over the printed name.

**RE:** 2006 Phase II Annual Report

2006-2-0 2006  
Attached please find the 2006 NPDES Phase II MS4 General Permit  
Annual Report for the Town of Bridgewater.

**Municipality/Organization:** TOWN OF BRIDGEWATER

**EPA NPDES Permit Number:** MAR 041097

**MaDEP Transmittal Number:** W-

**Annual Report Number**

**& Reporting Period:** No. 3: March 05-March 06

*Received - 9/26/06*

## NPDES PII Small MS4 General Permit Annual Report

### Part I. General Information

**Contact Person:** Andrew Bagas

**Title :** Highway Superintendent

**Telephone #:** 508-697-0931

**Email:** abagas@bridgewaterma.org

### Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

**Signature:**



**Printed Name:** Andrew Bagas

**Title:** Highway Superintendent

**Date:** September 15, 2006

## **Part II. Self-Assessment**

The Town of Bridgewater has completed the required self-assessment and has determined that our municipality is making progress towards permit conditions, except for the following provisions:

BMP # 1. Enlist residents as S/W educators.

BMP # 2. Design & distribute brochures.

BMP # 4. Educate students.

### Part III. Summary of Minimum Control Measures

#### 1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
1	Enlist residents as S/W Educators	Hwy. Supt.		No progress	Begin program
Revised					
2	Design & distribute brochures	“		No progress	Begin program
Revised					
3	Stencil storm drains	“		Program started	Continue program
Revised					
4	Educate students	Hwy Supt, Educators		No progress	Begin program
Revised					
5	Form technical committee	“		Committee formed	Continue meetings
Revised					
6	Tech Committee reviews general permit	Tech Comm		In progress. Construction By-Law is complete and to be presented to Town Meeting in November, 2006.	Continue review
Revised					

#### 1a. Additions


## 2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
7	T/C drafts by-laws	Tech Comm		Construction By-Law In progress	Continue program
Revised					
8	Residents assist with adopt-a-drain program	“		Not started yet	FY06-FY08
Revised					
9	Map outfalls and MS4	“		Mapping in progress	Continue mapping
Revised					
10	Train staff in outfall inspection	“		Training started	Begin program
Revised					
11	Tech Committee drafts illicit discharge by-law	“	Completed	Completed	Town adopted by-law
Revised					
12	Enforcement of by-law	“		In progress	In progress
Revised					

### 2a. Additions


### 3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
13	BPM's required for construction	Tech Comm		By-Law development in completed to be presented to Town Meeting November, 2006.	Begin program
Revised					
14	Plng Bd includes BMPs in sub-division review	Planning Board, Tech Comm		In progress	Continue program
Revised					
15	ZBA includes BMPs in site review	ZBA		In progress	Begin program
Revised					
16	Enforcement of By-law	Hwy. Supt. And Board of Selectmen		Not started yet	Begin program
Revised					
17	Plng Bd & Tech Comm. to review goals	Plng. Bd.		In progress	Begin FY06
Revised					
18	Propose regulation changes	Plng. Bd., Tech Comm. ZBA		In progress	Begin FY06
Revised					

#### 3a. Additions


#### 4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
19	Require BMPs in review process	Plng Bd, ZBA		Not started yet	FY06
Revised					
20	Require deed restrictions	Plng Bd, ZBA, Counsel, SW mgr.		In progress	Continue program
Revised					
21	Clean catch basins regulary	Hwy Supt		In progress	Continue program
Revised					
22	Sweep streets regularly	“		In progress	Continue program
Revised					
23	Use E/S controls for road repairs	“		In progress	Continue program
Revised					
24	Cover outside drains	“		In progress	Continue program
Revised					

#### 4a. Additions


## 5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
25	MS4 discharge to impaired waters?	Hwy Supt		In progress	Continue program
Revised					
26	Identify pollutant discharge to MS4	“		In progress	Continue program
Revised					
27	Ensure WLA met by S/W BMPs	“		Not started yet	Begin program
Revised					
28	Reduce pollutant discharges to MS4s	“		In progress	Continue program
Revised					
Revised					
Revised					

### 5a. Additions




## 6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 2
Revised					
Revised					
Revised					
Revised					
Revised					

### 6a. Additions


**7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>>**

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Dept./Person Name</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) – Permit Year 1 (Reliance on non-municipal partners indicated, if any)</b>	<b>Planned Activities – Permit Year 2</b>
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					
Revised					

**7a. Additions**


**7b. WLA Assessment**

#### Part IV. Summary of Information Collected and Analyzed

#### Part V. Program Outputs & Accomplishments (OPTIONAL)

##### Programmatic

Stormwater management position created/staffed	Yes, Highway Supt.	
Annual program budget/expenditures	N/A	

##### Education, Involvement, and Training

Estimated number of residents reached by education program(s)	N/A	
Stormwater management committee established	Yes	
Stream teams established or supported	N/A	
Shoreline clean-up participation or quantity of shoreline miles cleaned	N/A	
Household Hazardous Waste Collection Days	N/A	
▪ days sponsored		
▪ community participation		
▪ material collected		
School curricula implemented	No	


## Legal/Regulatory

	In Place Prior to Phase II	Under Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination				X
▪ Erosion & Sediment Control				X
▪ Post-Development Stormwater Management		X		
Accompanying Regulation Status (indicate with "X")				
▪ Illicit Discharge Detection & Elimination		X		
▪ Erosion & Sediment Control				X
▪ Post-Development Stormwater Management		X		
▪				
▪				

## Mapping and Illicit Discharges

Outfall mapping complete	25%	
Estimated or actual number of outfalls	200	
System-Wide mapping complete		
Mapping method(s)		
▪ Paper/Mylar	20	
▪ CADD	0	
▪ GIS	0	
Outfalls inspected/screened	20	
Illicit discharges identified	0	
Illicit connections removed	0	
% of population on sewer	(35%)	
% of population on septic systems	(65%)	


### Construction

Number of construction starts (>1-acre)	5	
Estimated percentage of construction starts adequately regulated for erosion and sediment control	100	
Site inspections completed	5	
Tickets/Stop work orders issued	0	
Fines collected	0	
Complaints/concerns received from public	0	

### Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	100	
Site inspections completed	5	
Estimated volume of stormwater recharged	Unknown	

### Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	1/yr	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	1/yr	
Total number of structures cleaned	4000	
Storm drain cleaned	200	
Qty. of screenings/debris removed from storm sewer infrastructure	Unknown	
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)	Compost	
Cost of screenings disposal	N/A	


Average frequency of street sweeping (non-commercial/non-arterial streets)	1/yr	
Average frequency of street sweeping (commercial/arterial or other critical streets)	2/yr	
Qty. of sand/debris collected by sweeping	Unknown	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	Compost	
Cost of sweepings disposal	Unknown	
Vacuum street sweepers purchased/leased	0	
Vacuum street sweepers specified in contracts	0	

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	N/A	
▪ Herbicides	N/A	
▪ Pesticides	N/A	

Anti-/De-Icing products and ratios	Salt/sand 50:50	
Pre-wetting techniques utilized	N	
Manual control spreaders used	Y	
Automatic or Zero-velocity spreaders used	N	
Estimated net reduction in typical year salt application	Unknown	
Salt pile(s) covered in storage shed(s)	Y	
Storage shed(s) in design or under construction	N/A	